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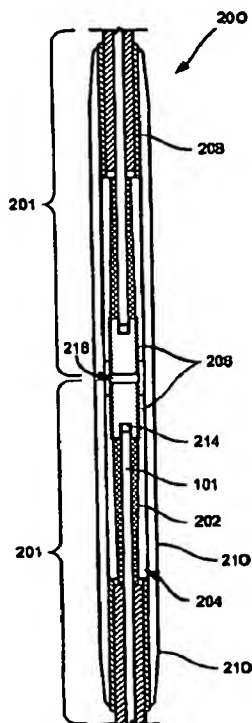
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- (21) International Application Number: **PCT/US2004/035199** (74) Agent: **THE MCINTOSH GROUP**; 8000 East Prentice Ave. Suite B-6, Greenwood Village, CO 80111 (US).
- (22) International Filing Date: 22 October 2004 (22.10.2004) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
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[Continued on next page]

(54) Title: A COLLET-TYPE SPLICE AND DEAD END FOR USE WITH AN ALUMINUM CONDUCTOR COMPOSITE CORE REINFORCED CABLE



(57) Abstract: This invention relates to collet-type fittings (201) for use in collet-type splices and collet-type dead ends and methods for splicing together two aluminum conductor composite core reinforced cables (ACCC) or terminating one ACCC cable. The collet-type fittings (201) comprise a collet (202) coincident with a collet housing (204) to hold the composite cores. The composite cores can be stripped of the aluminum conductor to provide a bond between the collet (202) and the composite core. After inserting the composite core into the collet (202), a compression element (206) compresses the collet (202). The collet (202) holds the composite core with frictional forces and the collet (202) further compresses and strengthens the hold on the composite core if the composite core pulls the collet (202) further into the collet housing (204).

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(74) Agent: **THE MCINTOSH GROUP**; 8000 East Prentice Ave. Suite B-6, Greenwood Village, CO 80111 (US).

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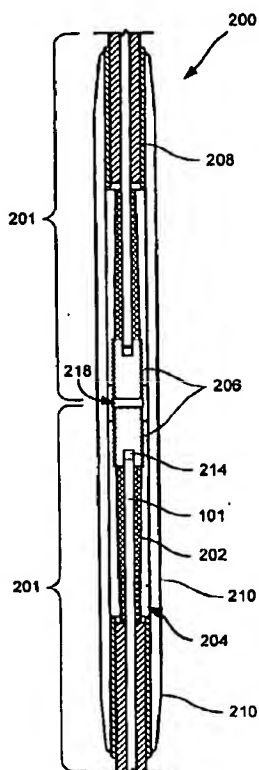
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(72) Inventor; and

(75) Inventor/Applicant (for US only): **BRYANT, David**

[Continued on next page]

(54) Title: **A COLLET-TYPE SPLICE AND DEAD END FITTING**



(57) Abstract: This invention relates to collet-type fittings (201) for use in collet-type splices and collet-type dead ends and methods for splicing together two aluminum conductor composite core reinforced cables (ACCC) or terminating one ACCC cable. The collet-type fittings (201) comprise a collet (202) coincident with a collet housing (204) to hold the composite cores. The composite cores can be stripped of the aluminum conductor to provide a bond between the collet (202) and the composite core. After inserting the composite core into the collet (202), a compression element (206) compresses the collet (202). The collet (202) holds the composite core with frictional forces and the collet (202) further compresses and strengthens the hold on the composite core if the composite core pulls the collet (202) further into the collet housing (204).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01R 4/50

US CL : 174/88R, 84C, 84R, 74R; 439/863, 877

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2,988,727A (BERNDT) 13 JUNE 1961 (13-6-1961) Figures 8-10	1-11, 15, 16, 21, 22 and 24-26
A	US 3,184,535A (WORTHINGTON) 18 MAY 1965 Figures 1 and 4	1-27



Further documents are listed in the continuation of Box C.



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"P" document published prior to the international filing date but later than the priority date claimed

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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"Z"

document member of the same patent family

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